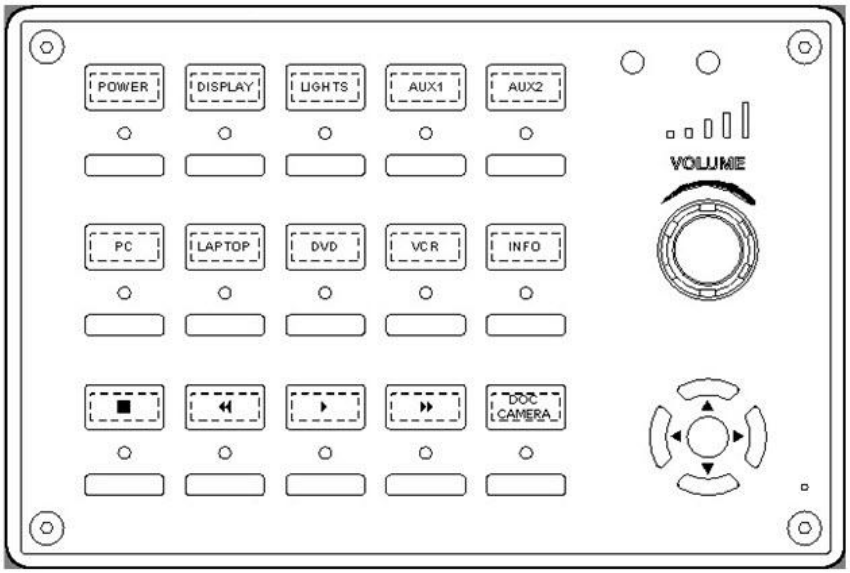
Elmo Document Camera TT-02RX Quick Reference Guide

Below are instructions on how to operate the Elmo document camera.

To start press the Power button on the Smartroom control panel so the red light appears. The red light means the device is on. Press the Display button and then the Doc Camera button on the Smartoom control panel so the red lights appear. The Elmo document camera operation instructions are explained below.



Smartroom Controller Diagram

Elmo Document Camera Operation Instructions

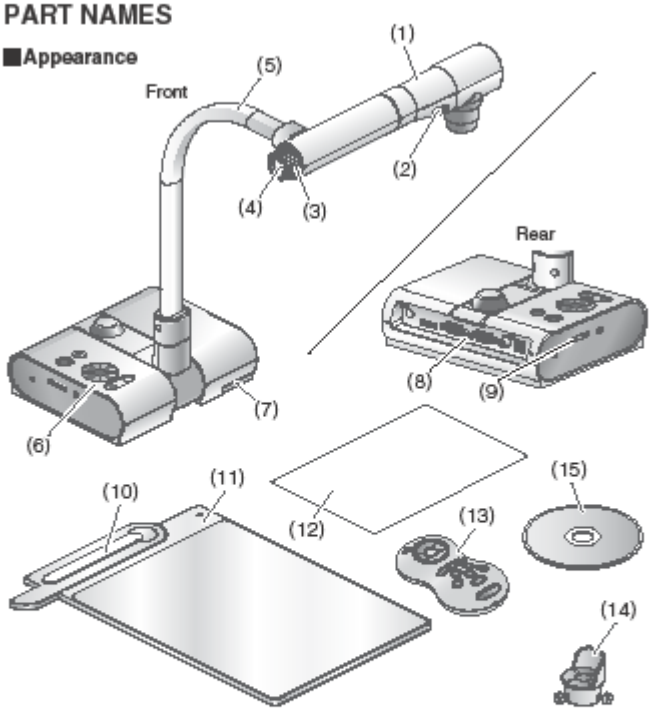
1. Press the on button on the Elmo operating panel. The light will turn blue meaning the camera is on. (See page 2 for the camera part locations.)
2. Place your document on the camera stage. (Once again see page 2 for the camera part locations.)
3. Page 5 and 9 of this guide explain how to adjust the focus and brightness for the camera.
4. To power off the equipment press the power off button on the camera. The red light will turn on meaning the unit is off. When you press the Power button on the Smartroom control panel the red light will go off meaning the devices are off.

English

1 PART NAMES AND FUNCTIONS

PART NAMES

■Appearance



No	Name	
(1)	Camera head	
(2)	Illumination lamp switch	
(3)	Zoom dial	P.49
(4)	AF Button	P.50
(5)	Camera column	
(6)	Operating panel	P.12
(7)	Stage positioning	P.36
(8)	Rear panel	P.14

No	Name	
(9)	Side panel	P.15
(10)	Magnetic strip	P.35
(11)	Stage	P.35
(12)	Anti-glare sheet	P.35
(13)	Remote control	P.16
(14)	Microscope attachment	P.45
(15)	Image Mate CD-ROM	

The power button is located at the top left hand corner on the operation panel.

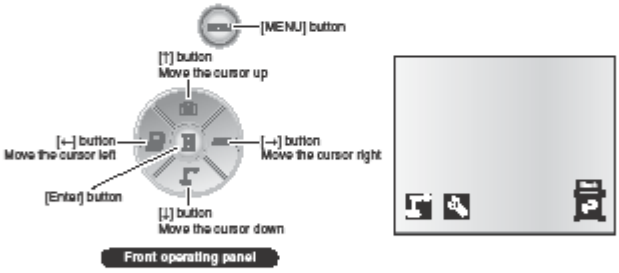
English

OSD (On Screen Display)

The menu items displayed on the monitor or the projection screen are referred to as "OSD (On Screen Display)".

OSD Basic Operations

1. Press the [MENU] button on the front panel to display the OSD menu, and then use the [↑↓←→] buttons to move the cursor to the icon you want to operate or set.
2. Press the [Enter] button on the front panel to select function to be adjusted.



Front operating panel

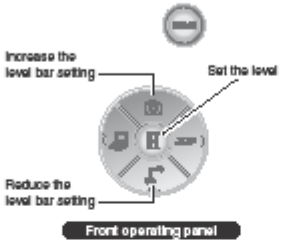
English

PART NAMES AND FUNCTIONS

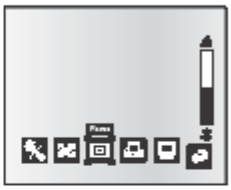
■ Adjusting the setting value

1 Use the [↑↓] buttons on the front panel to adjust the setting value.

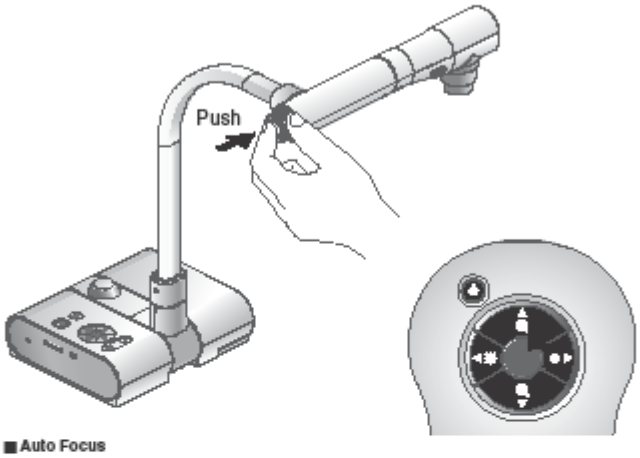
2 Press the [Enter] button again on the front panel to adjust the value, as indicated on the level bar.



Front operating panel



Focus



■ **Auto Focus**

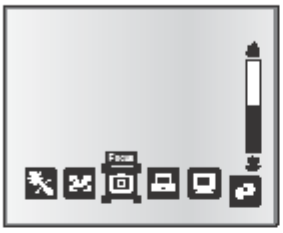
Press the [AF] button to automatically focus. This unit provides a one-shot auto-focus system. Once the camera is focused, the auto focus operation is released, and then the focus position is maintained.

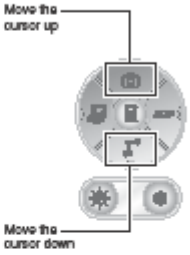
Note

- The objects listed below may not be brought into focus by the auto focus. In such cases, use the manual focus.
  - Low contrast objects
  - Objects with fine repeated patterns, such as lateral stripes and criss-cross stripes
  - Objects glittering or reflecting strong light
  - Objects with a bright background or excessive contrast
  - Objects that are entirely dark
  - Objects located near and far away at the same time
  - Objects in motion
- Focus range
  50mm - ∞(2.0 in x) from lens top
- In SD mode, digital zoom settings for SD images can be reset.

■ Manual focus

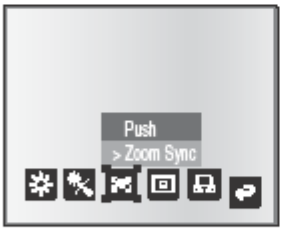
You can change the focus position by pressing the [ ] and [ ] buttons on the main unit after selecting [Focus] from the OSD menu.
Use this function (manual focus) to focus on any part of a 3-D object.

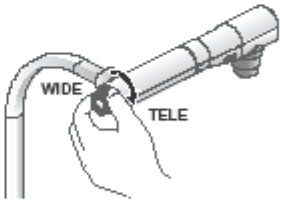


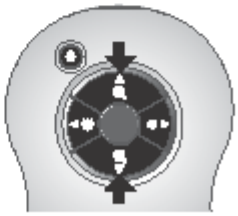


■ Zoom Sync Focus

You can automatically adjust the focus by selecting [AF Mode] → [Zoom Sync] from the OSD menu and operating zoom dial on the main unit and the zoom buttons on the remote control.

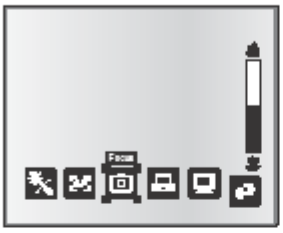


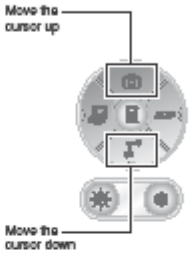




■ Manual focus

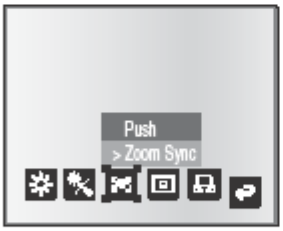
You can change the focus position by pressing the [ ] and [ ] buttons on the main unit after selecting [Focus] from the OSD menu.
Use this function (manual focus) to focus on any part of a 3-D object.

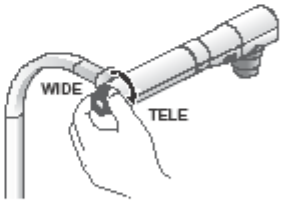


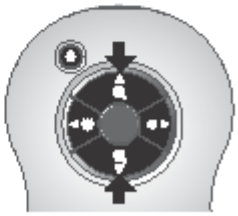


■ Zoom Sync Focus

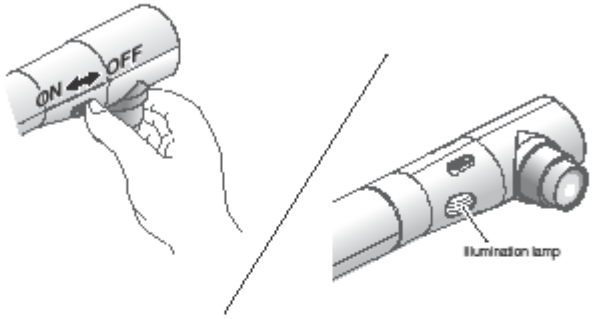
You can automatically adjust the focus by selecting [AF Mode] → [Zoom Sync] from the OSD menu and operating zoom dial on the main unit and the zoom buttons on the remote control.







Illumination lamp



By sliding the illumination lamp switch, the illumination lamp can be turned ON/OFF.

- [ON] : The illumination lamp lights.
- [OFF] : The illumination lamp goes out.

Note

- To take shots of people, turn off the illumination lamp switch.
  (Make sure that the light from the illumination lamp does not shine directly into their eyes.)
- This product is equipped with a high-brightness LED lamp. You can safely use the lamp to light up objects, however its brightness will gradually degrade with long-term usage. This is not a malfunction of the lamp, but a feature of the LED performance.
- Do not touch the illumination lamp while it is on as the temperature may be too high.

Adjusting the brightness

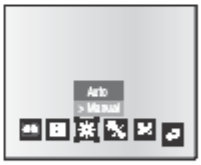
Press the [BRIGHTNESS ☀] or [BRIGHTNESS ●] buttons on the operating panel or on the remote control to adjust image brightness. The following two adjustment modes can be set by selecting [Brightness] from the OSD menu.

■ **Automatic brightness adjustment**

([Brightness] → [Auto] in the OSD) The brightness of the image changes automatically according to the brightness of the object.

■ **Manual brightness adjustment**

([Brightness] → [Manual] in the OSD)
The brightness of the image is fixed to the specified level.



Note

- Factory setting is set to [Auto].
- Manual adjustment fixes the brightness and does not adjust to changes in brightness of the object.
- When the brightness becomes dark, the frame rate slows, and the image may become hard to see.
- By setting [Guide] to [On] in the OSD menu, the setting details are displayed on the screen.
- To go back to the factory settings, press the [BRIGHTNESS ☀] and [BRIGHTNESS ●] buttons on the operating panel at the same time, or set [Reset Brightness] from the OSD menu.
- In places where the object is exposed to bright sunlight (e.g. near a window), or extremely bright lights, the brightness of the screen may not dim sufficiently, even when the [BRIGHTNESS ●] button is pressed. In such cases, adjust the amount of light by closing the curtains or moving the source of the light.